

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ☒ ELECTRIC LOGS ☒ F ☒ X WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.

980808 Conf Exp!

DATE FILED JANUARY 28, 1997

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN

#

DRILLING APPROVED: FEBRUARY 12, 1997

14-20-H62-3514

SPUDDED IN: 5/20/97

COMPLETED: 7-8-97 PDW PUT TO PRODUCING: 8-8-97

INITIAL PRODUCTION: 8-17-97 24 hr Test Oil 100 BBL, Gas 20 MCF, Water 30-50 L

GRAVITY A.P.I.

GOR:

PRODUCING ZONES: 4102-5634' (GRVU)

TOTAL DEPTH: 5815'

WELL ELEVATION: 6148' GL

DATE ABANDONED:

FIELD: ANTELOPE CREEK

UNIT:

COUNTY: DUCHESNE

WELL NO. UTE TRIBAL 19-05

API NO. 43-013-31793

LOCATION 2005 FNL FT. FROM (N) (S) LINE. 0658 FWL

FT. FROM (E) (W) LINE.

SWNW

1/4 - 1/4 SEC.

19

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

5S

3W

19

PETROGLYPH OPERATING

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
<i>B marker 3711</i>	Dakota	Park City	McCracken
<i>X marker 4200</i>	Burro Canyon	Rico (Goodridge)	Aneth
<i>Y marker 4234</i>	Cedar Mountain	Supai	Simonson Dolomite
<i>Douglas Creek 4347</i>	Buckhorn	Wolfcamp	Sevy Dolomite
<i>B limestone 4018</i>	JURASSIC	CARBON I FEROUS	North Point
<i>Wasatch Castle Red 5294</i>	Morrison	Pennsylvanian	SILURIAN
<i>Stone Cabin Basal Park 5709</i>	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

Petroglyph Operating Co., Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839

January 24, 1997

Utah Division of Oil, Gas, & Mining
Attn: Mr. Frank Matthews, Petroleum Engineer
1594 West North Temple
Box 145801
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL
UTE TRIBAL #19-05
SW/NW SEC.19, T5S, R3W
DUCHESNE COUNTY, UTAH
LEASE NO. BIA 14-20-H62-3514
UTE TRIBAL LANDS

Dear Mr. Matthews:

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter
P.O. Box 1910
Vernal, UT 84078
Phone # (801) 789-4120
Fax # (801) 789-1420

Sincerely,



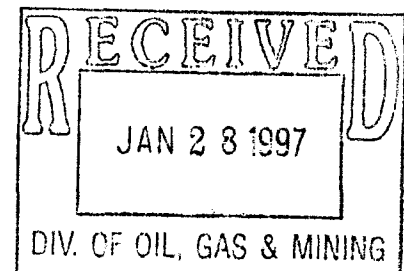
Ed Trotter

Agent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-3514
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE INDIAN TRIBE
2. NAME OF OPERATOR PETROGLYPH OPERATING COMPANY, INC.		7. UNIT AGREEMENT NAME
3. ADDRESS AND TELEPHONE NO. P.O. BOX 607, ROOSEVELT, UT 84066		8. FARM OR LEASE NAME, WELL NO. UTE TRIBAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2005' FNL & 658' FWL SW/NW At proposed prod. zone		9. API WELL NO. #19-05
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 19.6 MILES SOUTHWEST OF MYTON, UTAH		10. FIELD AND POOL, OR WILDCAT ANTELOPE CREEK
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 658' (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE 640	11. SEC., T. R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T5S, R3W
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	19. PROPOSED DEPTH 5816'	12. COUNTY OR PARISH DUCHESTER
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6148.2' GRADED GROUND	20. ROTARY OR CABLE TOOLS ROTARY	13. STATE UTAH
22. APPROX. DATE WORK WILL START* JANUARY, 1997		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake.
7 7/8	5 1/2	15.5#	5816'	50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG ±) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

CONFIDENTIAL

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah
Ute Tribe, Fort Duchesne, Utah

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE AGENT FOR PETROGLYPH DATE 1-22-97

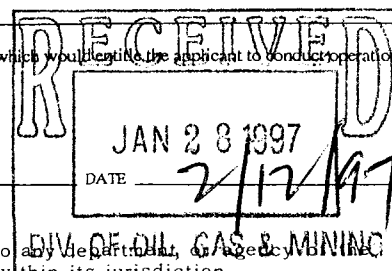
(This space for Federal or State office use)

PERMIT NO. 43-013-31793 APPROVAL DATE

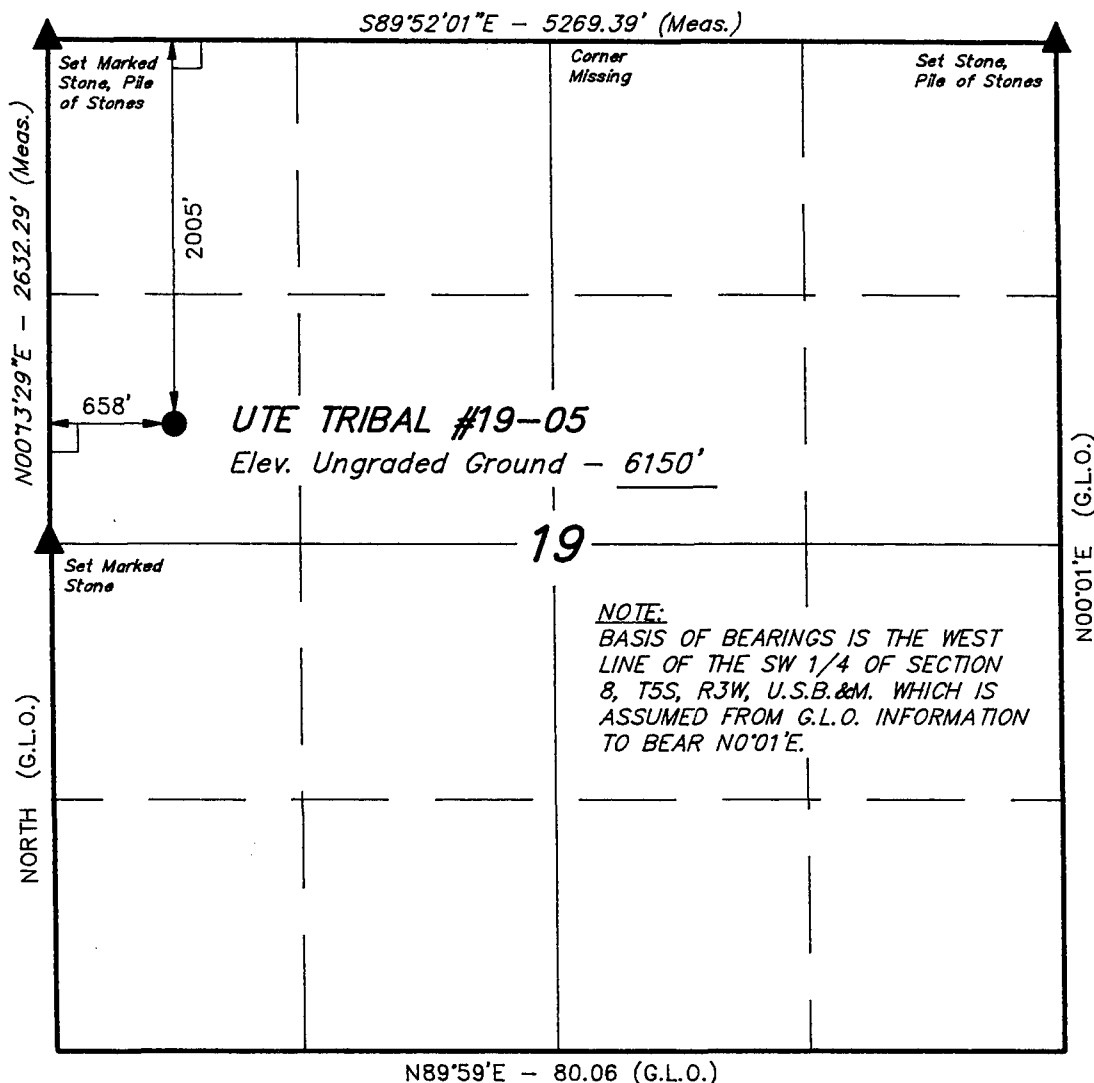
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:APPROVED BY [Signature] TITLE

See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any Department, or Agency, or United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



T5S, R3W, U.S.B.&M.



LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

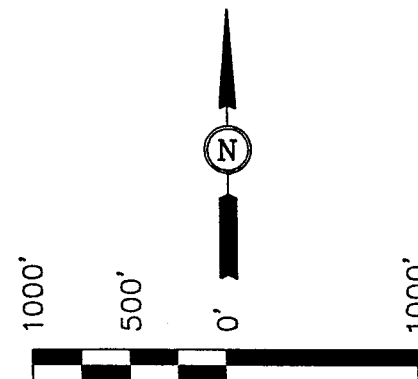
▲ = SECTION CORNERS LOCATED.

PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #19-05, located as shown in the SW 1/4 NW 1/4 of Section 19, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 18, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5943 FEET.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Hay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-21-96	DATE DRAWN: 11-20-96
PARTY B.B. B.H. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE PETROGLYPH OPERATING CO., INC.	

EIGHT POINT PLAN

UTE TRIBAL #19-05
SW/NW SEC. 19, T5S R3W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2638	3520
'B' marker	3700	2458
'X' marker	4200	1958
Douglas Creek	4335	1823
"B" Limestone	4710	1448
B/Castle Peak Limestone	5289	869
Basal Carbonate Limestone	5706	452
Total Depth	5816	342

Anticipated BHP 2500

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4335	1823
Oil/Gas	B/Castle Peak	5289	869
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

4. CASING PROGRAM :

<u>MINIMUM SAFETY FACTOR</u>								
<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 5816'	5816'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #19-05
SW/NW SEC. 19, T5S R3W
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'
250' - 4000'
4000' - TD
TD

MUD TYPE

Air
Air/Mist & Aerated Water
Air/3% KCL water or KCL substitute
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

Logs: Mud Logging	T.D. to base of surface csg.
Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed
DST': None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL #19-05
SW/NW SEC. 19, T5S R3W
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

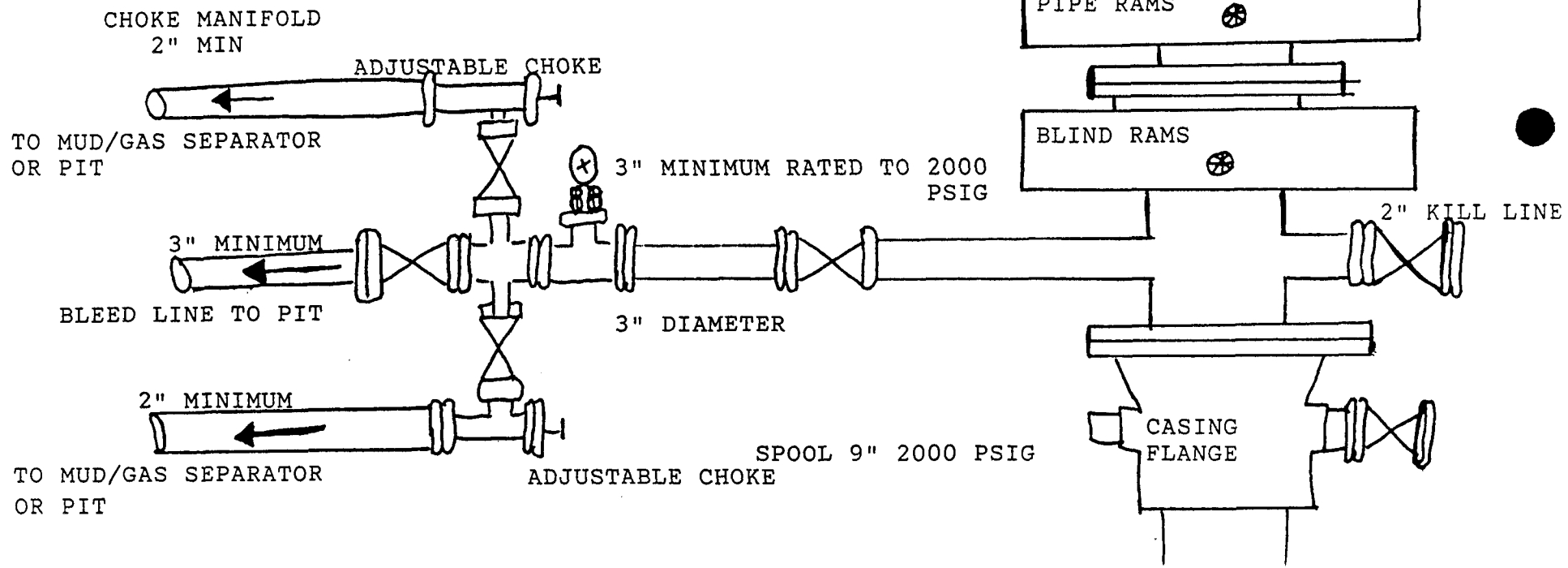
(Attachment: BOP Schematic Diagram)

2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.
CASING FLANGE IS 9" 2000 PSIG RATED.
BOPE 9" 2000 PSIG

TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.
Well Name & Number: Ute Tribal #19-05
Lease Number: BIA 14-20-H62-3514
Location: 2005' FNL & 658' FWL SW/NW, Sec. 19, T5S R3W
U.S.B.&M., Duchesne County, Utah
Surface Ownership: Ute Indian Tribe

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of
location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the
well.

Casing String and
Cementing - twenty-four (24) hours prior to running casing and
cementing all casing strings.

BOP and related
Equipment Tests - twenty-four (24) hours prior to running casing and
tests.

First Production
Notice - within five (5) business days after new well begins
or production resumes after well has been off
production for more than ninety (90) days.

For more specific details on notification requirements, please check the
Conditions of Approval for Notice To Drill and Surface Use Program.

THIRTEEN POINT SURFACE USE PROGRAM

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 19.6 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.3 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - None
 - B. Abandoned wells - None
 - C. Temporarily abandoned wells - None.
 - D. Disposal wells - None.
 - E. Drilling wells - None.
 - F. Producing wells - 2*
 - G. Shut in wells - None
 - H. Injection wells - None
- (*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines - None

4. Gas gathering lines-None
5. Injection lines - None
6. Disposal lines - None
7. Surface pits - None

B. OFF WELL PAD

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 600' from proposed location to a point in the S/2NW/4 of Section 19, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing facility at the Ute Tribal #19-06 tank battery. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Ute Tribal #19-06 location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded.
The required paint color is Desert Brown.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.

B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

___To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State, Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

___To protect the environment (without a chemical analysis)
reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

___Storage tanks will be used if drill sites are located on tribal

irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the South side of the location.

The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the West end.

Access to the well pad will be from the Southeast.

N/A Diversion ditch(es) shall be constructed on the _____ side of the location (above/below) the cut slope, draining to the _____

N/A Soil compacted earthen berm(s) shall be placed on the _____ side(s) of the location between the _____

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons _____

X Corners No. 2, 6, & 8 will be rounded off to minimize the fill.

FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/ shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to

satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time of abandonment.

11. SURFACE OWNERSHIP

Access road: Ute Indian Tribe

Location: Ute Indian Tribe

12. OTHER INFORMATION

- A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:
- whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA,

or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation will have an appropriate sign indicating the name of the operator,

the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Additional Surface Stipulations

N/A No construction or drilling activities shall be conducted between

_____ and _____ because of _____

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately _____ ft. _____ of the location, as flagged on onsite.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING

Ed Trotter

1620 West 750 North

Vernal UT 84078

Telephone # (801)789-4120

Fax # (801) 789-1420

OPERATIONS

Vince Guinn

P.O. Box 607

Roosevelt, UT 84066

(801) 722-2531

Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

1-22-97

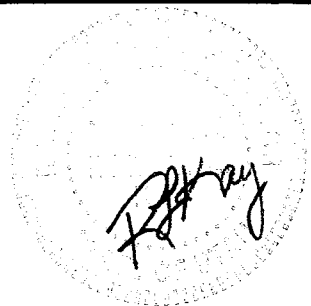
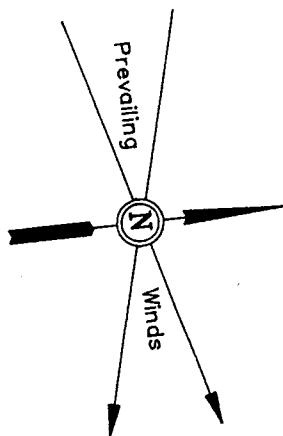
Date

Ed L. Smith

PETROGLYPH OPERATING CO., INC.

LOCATION LAYOUT FOR

UTE TRIBAL #19-05
SECTION 19, T5S, R3W, U.S.B.&M.
2005' FSL 658' FWL



SCALE: 1" = 50'
DATE: 11-20-96
Drawn By: C.B.T.

NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

FLARE PIT



Approx. Top of Cut Slope

Reserve Pit Backfill & Spoils Stockpile

Existing Drainage

C-2.0'
El. 50.2'

Sta. 2+90

Round Corners as Needed

PIPE RACKS

C-2.0'
El. 50.2'

Sta. 1+65

F-7.0'
El. 41.2'

Approx. Toe of Fill Slope

Sta. 0+00

F-13.5'
El. 34.7'

Proposed Access Road

Elev. Ungraded Ground at Location Stake = 6150.2'

Elev. Graded Ground at Location Stake = 6148.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

El. 64.9'
C-24.7'
(btm. pit)

C-5.4'
El. 53.6'

10' WIDE BENCH
RESERVE PITS (8' Deep)
1 1/2:1 Slope
Sta. 0+67

El. 58.5'
C-18.3'
(btm. pit)

NOTE:

Pit Capacity W/2' of Freeboard is ±4,600 Bbls.

Reserve Pit Backfill & Spoils Stockpile

El. 48.9'
C-0.7'

El. 48.3'
C-0.1'

C-14.2'
El. 62.4'

C-9.7'
El. 57.9'

Topsoil Stockpile

DATA

CATWALK 125'

40'

RIG

DOG HOUSE

WATER

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

STORAGE TANK

TRASH

165'

55'

4

3

2

1

8

7

6

5

4

3

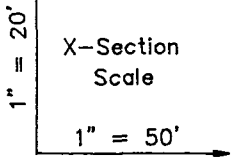
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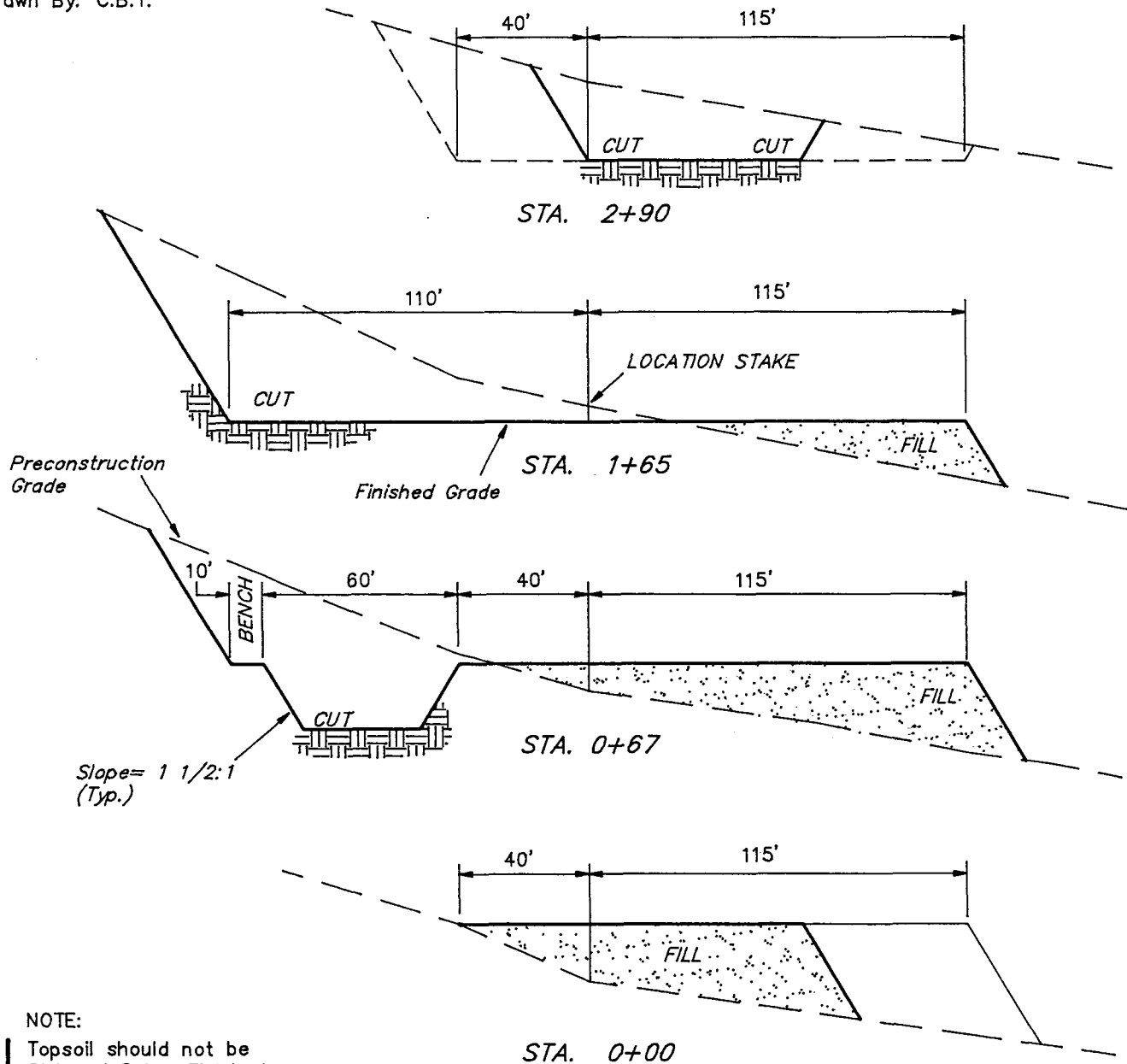
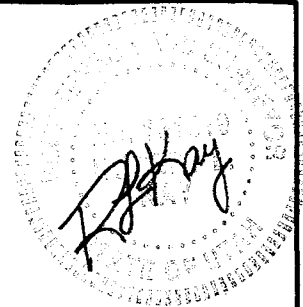
PETROGLYPH OPERATING CO., INC.

TYPICAL CROSS SECTIONS FOR

UTE TRIBAL #19-05
SECTION 19, T5S, R3W, U.S.B.&M.
2005' FSL 658' FWL



DATE: 11-20-96
Drawn By: C.B.T.



NOTE:

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

APPROXIMATE YARDAGES

(12") Topsoil Stripping	= 1,910 Cu. Yds.
Remaining Location	= 8,160 Cu. Yds.
TOTAL CUT	= 10,070 CU.YDS.
FILL	= 7,090 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,610 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,610 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

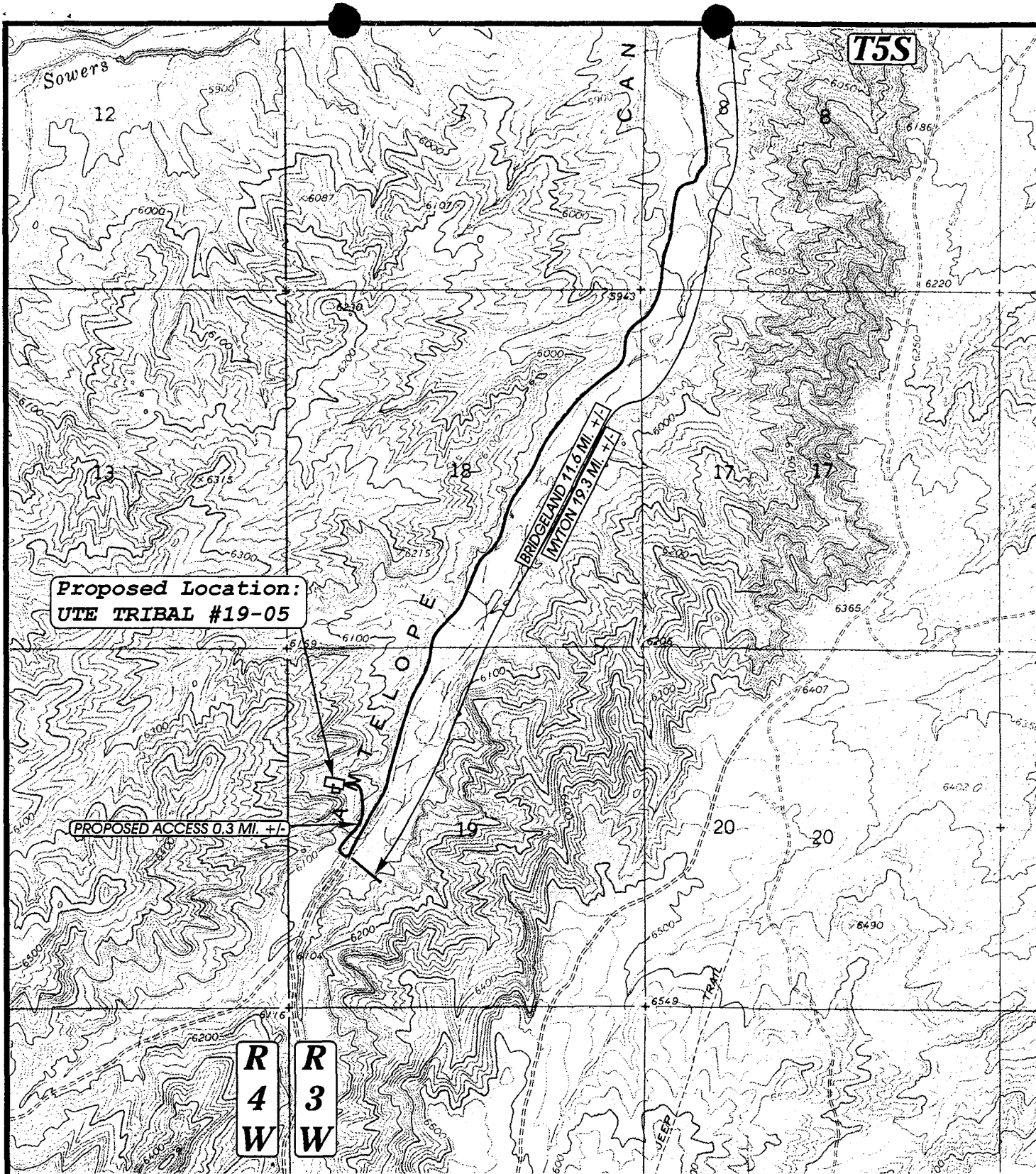
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85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017



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**UTE TRIBAL #19-05
SECTION 19, T5S, R3W, U.S.B.&M.
2005' NL 658' FWL**



**TOPOGRAPHIC
MAP "B"**

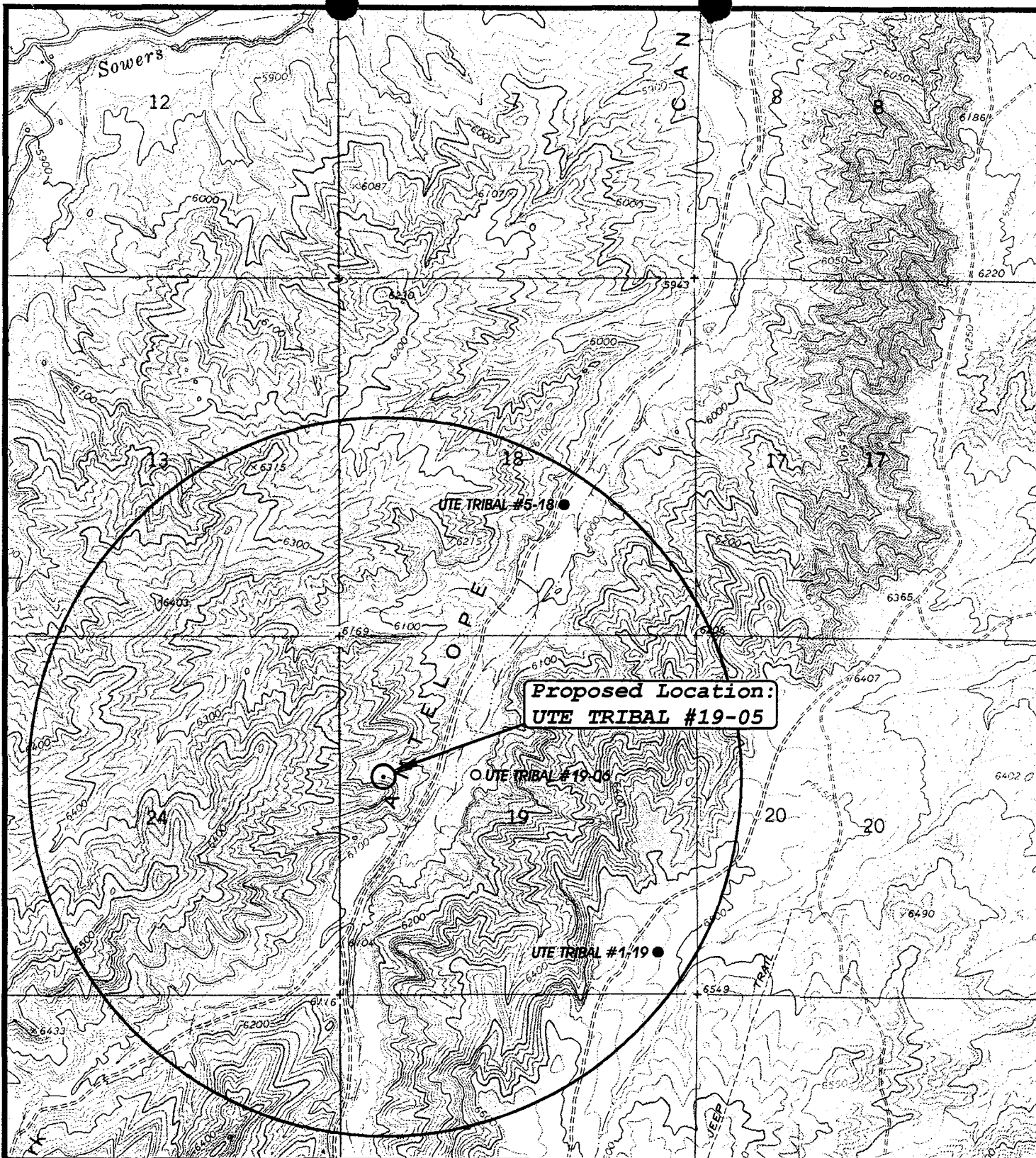
DATE: 11-20-96
Drawn by: D.COX

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #19-05
SECTION 19, T5S, R3W, U.S.B. & M.
2005' FNL 658' FWL

U E L S
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

SCALE: 1" = 2000'



LEGEND

U
E
I
S

- Water Wells
- Abandoned Wells
- Temporarily Abandoned Wells
- Disposal Wells
- Drilling Wells
- Producing Wells
- Shut-In Wells

UINTAH ENGINEERING & LAND SURVEYING
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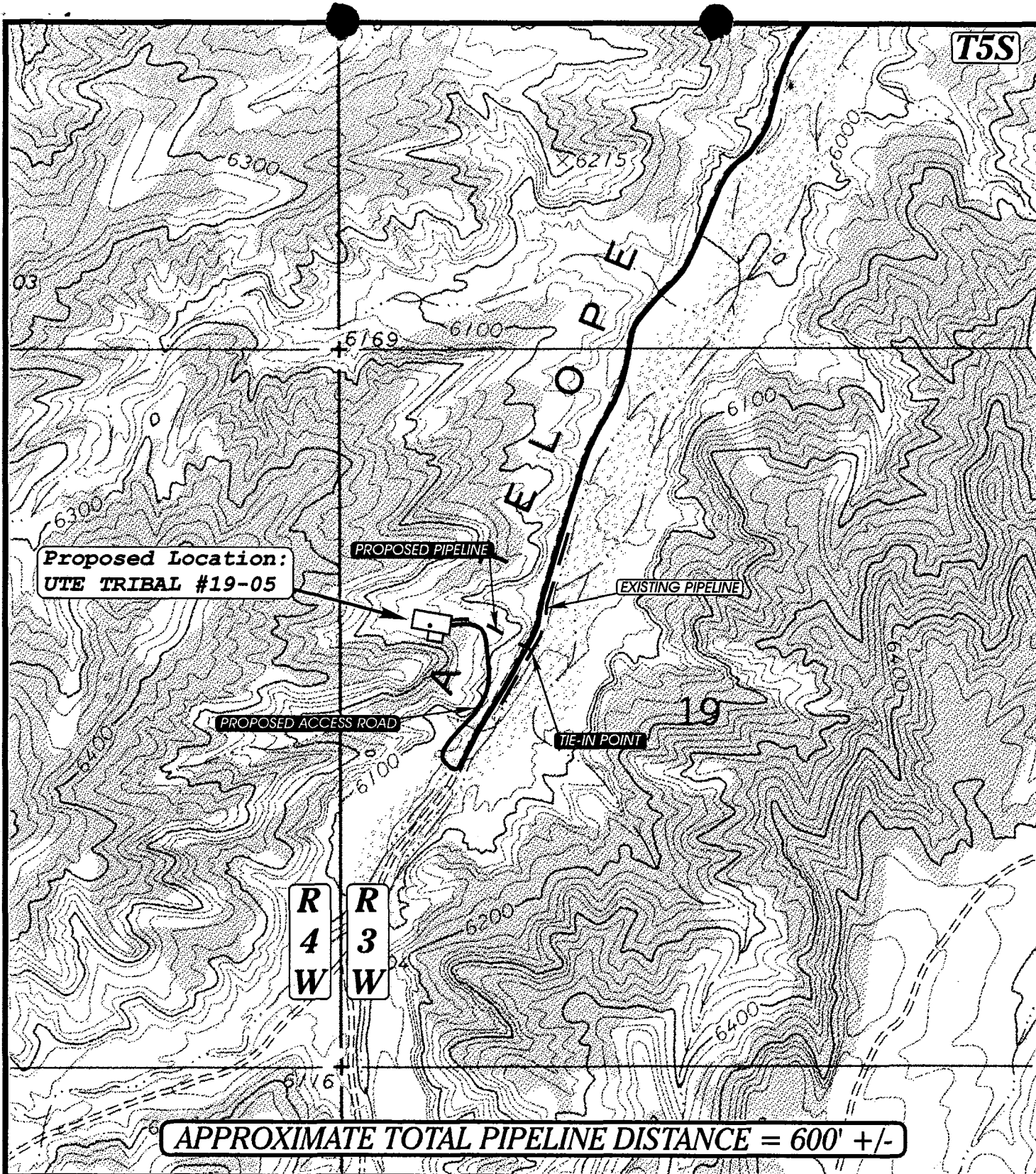


SCALE: 1" = 2000'

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #19-05
SECTION 19, T5S, R3W, U.S.B.&M.
TOPOGRAPHIC
MAP "C"

DATE: 11-20-96 D.COX



**TOPOGRAPHIC
MAP "D"**

U
E
L
S

--- Existing Pipeline
- - - Proposed Pipeline



PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #19-05
SECTION 19, T5S, R3W, U.S.B.&M.

DATE: 11-20-96
Drawn by: D.COX

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/28/97

API NO. ASSIGNED: 43-013-31793

WELL NAME: UTE TRIBAL 19-05
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

SWNW 19 - T05~~8~~ - R03W
SURFACE: 2005-FNL-0658-FWL
BOTTOM: 2005-FNL-0658-FWL
DUCHESNE COUNTY
ANTELOPE CREEK FIELD (060)

LEASE TYPE: IND
LEASE NUMBER: 14-20-H62-3514

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Federal ☒ State ☐ Fee ☐
(Number Bo 11556)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number 43-10152)
☒ RDCC Review (Y/N)
(Date: _____)

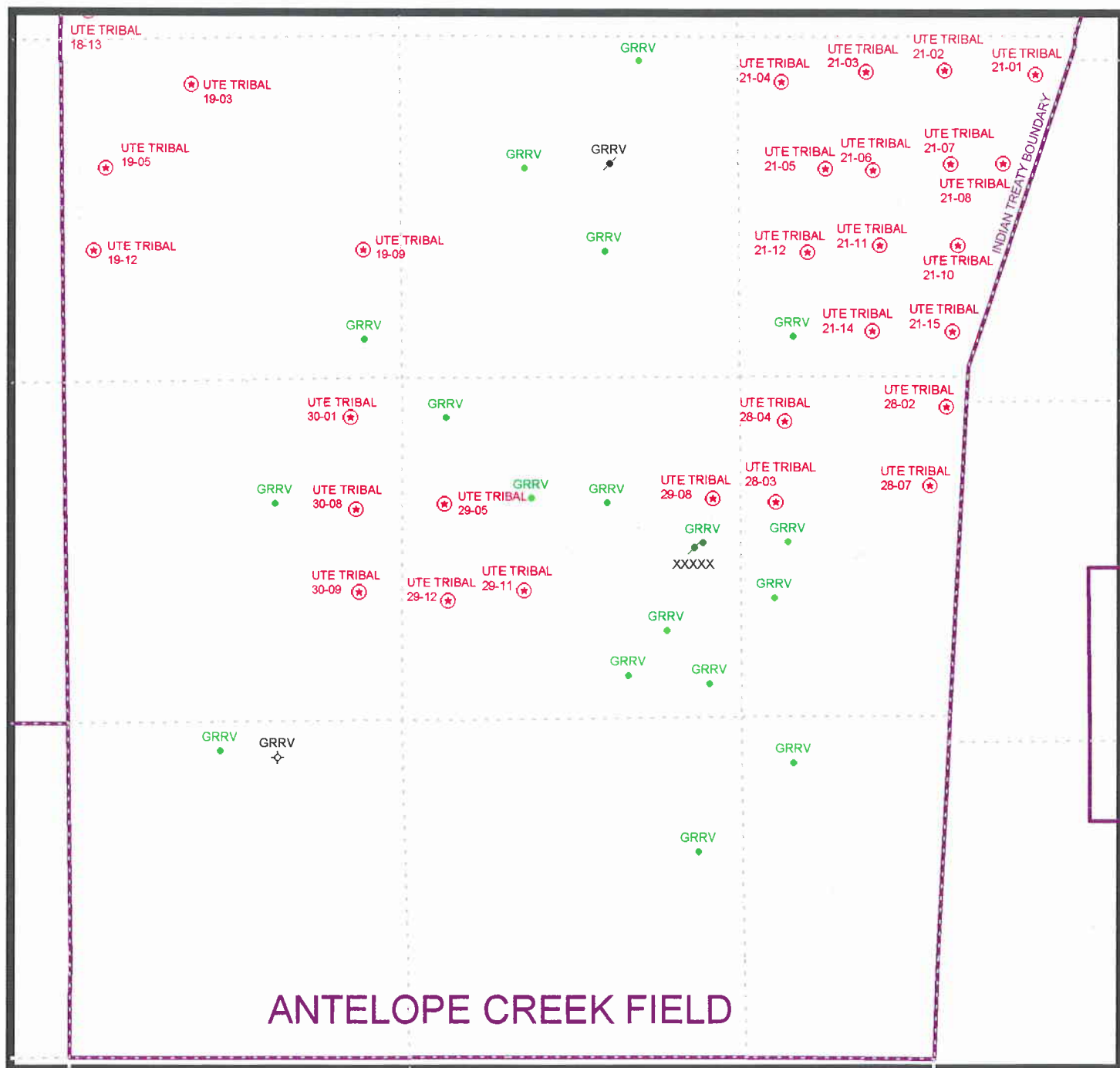
LOCATION AND SITING:

____ R649-2-3. Unit: _____
☒ R649-3-2. General.
____ R649-3-3. Exception.
____ Drilling Unit.
____ Board Cause no: _____
____ Date: _____

COMMENTS:

STIPULATIONS:

OPERATOR: PETROGLYPH
FIELD: ANTELOPE CREEK (060)
SEC. TWP. RNG: 19,29,30, T5S R3W
COUNTY: DUCHESNE
UAC: R649-3-2



PREPARED:
DATE: 28-JAN-97



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

February 12, 1997

Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, Utah 84066

Re: Ute Tribal 19-05 Well, 2005' FNL, 658' FWL, SW NW, Sec. 19,
T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31793.

Sincerely,

R. J. Firth
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company, Inc.
Well Name & Number: Ute Tribal 19-05
API Number: 43-013-31793
Lease: 14-20-H62-3514
Location: SW NW Sec. 19 T. 5 S. R. 3 W.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PETROGLYPH OPERATING COMPANY, INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface

2005' FNL & 658' FWL SW/NW

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

19.6 MILES SOUTHWEST OF MYTON, UTAH

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 658'
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5816'

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6148.2' GRADED GROUND

22. APPROX. DATE WORK WILL START*

JANUARY, 1997

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0#	250'	135 sx class "G" + 2% CaCl ₂ + 1/4 #/sx celloflake.
7 7/8	5 1/2	15.5#	5816'	50/50 POZMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG ±) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED
OPERATOR OF THE SUBJECT WELL UNDER BOND # BO 4556.pc: Utah Division of Oil, Gas, and Mining
Bureau of Indian Affairs, Fort Duchesne, Utah
Ute Tribe, Fort Duchesne, Utah

RECEIVED

JAN 27 1997

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE AGENT FOR PETROGLYPH

DATE

1-22-97

(This space for Federal or State office use)

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

Assistant Field Manager
Mineral Resources

DATE

FEB 14 1997

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 19-05

API Number: 43-013-31793

Lease Number: 14-20-H62-3514

Location: SWNW Sec. 19 T.5S R. 3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

Jerry Kenczka (801) 789-1190
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

SURFACE USE PROGRAM
Conditions of Approval (COAs)

The Surface Use Conditions of Approval (COA's) are from the Bureau of Indian Affairs concurrence memorandum and the site specific Environmental Analysis.

The Ute Tribe Energy and Minerals Department is to be notified 48 hours prior to construction. A Tribal Technician shall monitor construction.

Fifty (50) foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Buried pipelines shall be limited to 15 feet wide; buried a minimum of 3 feet below the soil surface; and, monitored by a Tribal Technician.

Pipelines adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Any additional pipelines shall be parallel to the outer side of the first pipeline and shall be constructed as close to the first pipeline as safety requirements allow.

Surface pipelines shall be limited to 13 feet and the ROW will not be bladed or cleared of vegetation.

Where surface lines parallel roads, the pipe may be welded on the road then lifted from the road to the ROW.

Where surface lines do not parallel roads, the pipe may be welded on the road or well site and then pulled cross country with suitable equipment. The surface pipeline ROW will not be used as an access road.

The constructed travel width of the access road shall be limited to 22 feet, except, as granted, for sharp curves or intersections. Surface pipelines will be restricted to one side of the road ROW and, buried pipelines will be restricted to the other side.

Petroglyph Operating Company will assure the Ute Tribe that any/all contractors and any/all subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, and construction and restoration operations shall be confined to areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

Personnel from the Ute Tribe Energy & Minerals Department shall be consulted should cultural remains from subsurface deposits be exposed or identified during construction.

All mitigation stipulations contained in the Bureau of Indian Affairs combined site specific Environmental Analysis (EA) shall be strictly adhered, during and after construction.

Petroglyph Operating Company will notify the Ute Tribe Energy & Minerals Resource Department upon completion of APD and ROW so a Tribal Technician can verify Affidavit of Completions.

Before the site is abandoned the company will be required to restore the well site and ROW's to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and ROWs. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit, all fluids will be pumped from the pit, into trucks, and hauled to approved disposal sites. When the reserve pit is backfilled the surplus oil, mud, etc., will be buried a minimum of three (3) feet below the soil surface.

A closed production system shall be used. Production fluids will be contained in leak proof tanks. All production fluids will be taken to and disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, well sites, or other areas will not be allowed.

DIVISION OF OIL, GAS AND MINING

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SPUDDING INFORMATION

Name of Company: PETROGLYPH OPERATING

Well Name: UTE TRIBAL 19-05

Api No. 43-013-31793

Section: 19 Township: 5S Range: 3W County: DUCHESNE

Drilling Contractor UNION

Rig # 7

SPUDDED:

Date 5/20/97

Time

How ROTARY

Drilling will commence

Reported by DEANNA BELL

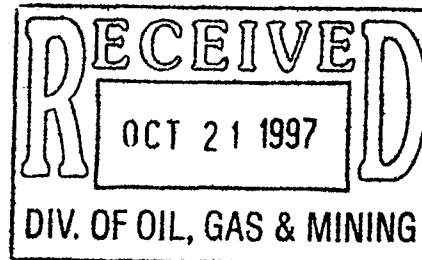
Telephone #

Date: 5/20/97 Signed: JLT

✓

October 15, 1997

Vicky Dyson
State of Utah
Division of Oil, Gas & Mining
1594 W. North Temple, Ste. 1210
Salt Lake City, UT 84114



CONFIDENTIAL

Ms. Dyson:

Enclosed please find the logs listed below for the wells located in Duchesne County, Utah.

<u>Well Name</u>	<u>Log</u>
Ute Tribal 19-06	CNL & AIT
Ute Tribal 16-07	CNL & AIT
Ute Tribal 19-05	CNL & AIT 43 0/3 31793 T053 R03W 19
Ute Tribal 18-11	CNL & AIT
Ute Tribal 15-12	CNL & AIT
Ute Tribal 16-03	CNL & AIT
Ute Tribal 14-05	CNL & AIT
Ute Tribal 19-09	CNL & AIT
Ute Tribal 16-08	CNL & AIT
Ute Tribal 19-04	CNL & AIT
Ute Tribal 07-10	CNL & AIT
Ute Tribal 19-03	CNL & AIT
Ute Tribal 30-10	CNL & AIT
Ute Tribal 30-11	CNL & AIT

If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

A handwritten signature in cursive script that reads "Judy Gates".

Judy Gates
Petroleum Geology Technician

SUBMIT IN DUPLICATE
(See other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
(Expires August 31, 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1.a. TYPE OF WELL: Oil Well ☒ Gas Well ☐ Dry ☐ Other ☐
b. TYPE OF COMPLETION: New Well ☒ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Reserv. ☐ Other ☐

2. NAME OF OPERATOR
Petroglyph Operating Company, Inc.
3. ADDRESS OF OPERATOR
P.O. Box 607, Roosevelt, UT 84066 (801) 722-2531

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2005' FNL 658' FWL
At top prod. interval reported below

At total depth 5815' RTD

15. DATE SPUDDED 5/20/97 16. DATE T.D. REACHEL 5/27/97 17. DATE COMPLETED (Ready to prod.) 7/8/97 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6148' GL 19. ELEV. CASINGHEAD 6148'

20. TOTAL DEPTH, MD & TVD 5815' RTD 21. PLUG BACK T.D., MD & TVD 5758' 22. IF MULTIPLE COMPL., HOW MANY* 8 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION -- TOP, BOTTOM, NAME (MD AND TVD)*
Green River

26. TYPE ELECTRIC AND OTHER LOGS RUN
CNL, AIT 10-22-97

CASING RECORD (Report all strings set in well)				CEMENTING RECORD		AMOUNT PULLED	
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE				
8-5/8"	24#	387'	12-1/4"	260 sxs Type 5			
5-1/2"	15-5#	5804'	7-7/8"	90 sxs Highfill			
				305 sxs Thixotropic			

LINER RECORD				TUBING RECORD			
SIZE	TOP	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5930'	

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
B6 5630-34' (16 shots)	C4 4370-76' (24 shots)			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
E4.2 5544-48' (16 shots)	C1 4252-56' (16 shots)			5630-34'	5750 gal Boragel, 6000# 20/40 prop
D7.1 5046-56' (40 shots)	B10 4102-06' (16 shots)			5544-48'	6742 gal Boragel, 28900# 20/40 prop
D5 4932-38' (24 shots)				5046-56'	250 gal 15% HCl & 7700 gal Boragel, 52200# 20/40 prop
D3.1 4782-86' (16 shots)				4932-38'	250 gal 15% HCl w/397 gal Spacer & 7695 gal Boragel, 42700# 20/40 prop
C8.1 4596-4600' (16 shots)				4596-4600'	5720 gal Boragel, 28000# 20/40 prop (cont)

33. DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)				WELL STATUS (Producing or shut-in)	
8/8/97		2 1/2" x 1-3/4" x 16' 40 ring RHAC pump				producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
8/17/97	24			100	20	30	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
	1100	24 HR. RATE					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) PERIOD EXPIRED ON 8-8-98 TEST WITNESSED BY Dave Schreiner

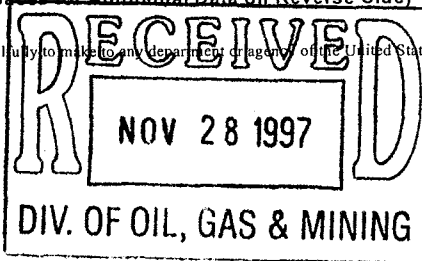
35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Signed Diana Bell Title Operations Coordinator Date 11-25-97

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly or willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



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WELL COMPLETION 19-05

(continued)

32.

4370-76' prop	252 gal 15% HCl & 5779 gal Boragel, 28800# 20/40
4252-56' prop	252 gal 15% HCl & 5751 gal Boragel, 28900# 20/40
4102-06' prop	252 gal 15% HCl & 5978 gal Boragel, 28500# 20/40

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37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
B Marker X Marker Y Marker Douglas Creek B Limestone Castle Peak Basal Carbonate	3716 4200 4234 4341 4718 5294 5709		CONFIDENTIAL			

OPERATOR Petroglyph Operating Company, Inc.OPERATOR ACCT. NO. N 3800ADDRESS P.O. Box 607Roosevelt, UT 84066

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12210	43-013-31793	Ute Tribal 19-05	SWNW	19	5S	3W	Duchesne	5-20-97	
WELL 1 COMMENTS: <i>Entity added 12-15-97. Loc</i> Ute Tribal 19-05 will tie into tank battery at the Ute Tribal 19-06											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Deanna K. Bell
Signature Deanna K. Bell

Operations Coordinator 5-23-97
Title Date

Phone No. (801) 722-2531

FORM 7

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: UTE Tribal 19-05API number: 43-013-317932. Well Location: QQ SWNW Section 19 Township 5S Range 3W County RUDESENE3. Well operator: Petroglyph Operating Company, Inc.Address: P.O. Box 607Roosevelt, UT 84066Phone: (801) 722-25314. Drilling contractor: Union DrillingAddress: P.O. Drawer 40Buckhannon, WV 26201Phone: 1-800-352-3839

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
	815	Hole wet	1/2 stream
	324'	1 1/2 stream	FRESH

6. Formation tops: _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 6/23/97Name & Signature: Lisha BellTitle: Operations Coordinator

COMPLETION REPORT

CONFIDENTIAL

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Lease: Ute Tribal 19-05

API #: 43-013-31793

Location: 19 - 5 S - 3 W

County, St.: Duchesne UT

Property: 50146

Elevation: KB 6158

GL 6148

AFE/EPE Number: 41312

Activity Date	Daily Cost	Activity Description
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7/8/97

\$8,213.00

PERFORATIONS:

5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots
4782-4786	Green River D (03.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4370-4376	Green River C (04)	4 SPF	24 shots
4252-4256	Green River C (01)	4 SPF	16 shots
4102-4106	Green River B (10)	4 SPF	16 shots

WELLBORE:

.5815 RTD

SITP @ 150 psi. SICP @ 50 psi. Finish single in 7/8" rods using rod renches. Tag PSN & space out install pony rod & polish rod w/ STFF box, etc. Seat pump. Fill tbg & pressure test to 500 psi w/ rig. Pump using rig increase pressure to 1000 psi w/ insert pump. Set rod string on clamp 6" off slight tag. SWIFN.

Note: Bottom 60 3/4" rods have 1 guided rod every 4th rod for a total of 15 guided rods.

ROD DETAIL

1 1/2" x 22' PR w/ liner

7/8" x 4' Pony rod

7/8" x 25" sucker rods (77)

3/4" x 25' sucker rods (144)

2 1/2" x 1-3/4" x 16' 40 ring RHAC

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

7/7/97	\$21,765.00	PERFORATIONS:
		5630-5634 Green River E (06) 4 SPF 16 shots
		5544-5548 Green River E (04.2) 4 SPF 16 shots
		5046-5056 Green River D (07.1) 4 SPF 40 shots
		4932-4938 Green River D (05) 4 SPF 24 shots
		4782-4786 Green River D (03.1) 4 SPF 16 shots
		4596-4600 Green River C (08.1) 4 SPF 16 shots
		4596-4600 Green River C (08.1) 4 SPF 16 shots
		4370-4376 Green River C (04) 4 SPF 24 shots
		4252-4256 Green River C (01) 4 SPF 16 shots
		4102-4106 Green River B (10) 4 SPF 16 shots

WELLBORE:

5815 RTD

SITP @ 0 psi. SICP @ 0 psi. W/ EOT @ ±629' circ 20 bbls hot K wtr to displace residue out. POOH w/ tbg & ret tool. Press test to 2000 psi. 0 loss in 5 min. RU SWLS & run CBL from 1400' to 180'. RD SWLS.

MU BVBP ret tool & rih & clean sand off BVBP @ ±1994' & latch & rel. POOH & LD plug. MU tbg, BHA & RIH (no sand to 5745'). Strip off BOP equip & frac flange & strop on csg flange. Set TAC & install tbg flange. Land tbg as per detail below w/ tbg in tension 12000#. Csg flange = 5½" x 2" x 3M w/ tbg flange 2-7/8" x 2" x 3". Flow tee w/ nipples & valves. Cross over to rod equip. Count & prepare rods. MU & prime 2½" x 1-2/4" x 16' insert pump from TRICO & single in 3/4" rods (144 jts) & 7/8" rods (10). SWIFN.

TUBING DETAIL	LENGTH	DEPTH
Stretch for 12000# tension	.87	
KB	10.00	
Tbg (131 jts)	4077.40	
Tbg Anchor Catcher	2.75	
Tbg (47 jts)	1459.52	
PSN	1.10	
Tbg (1 jt)	31.18	
Mechanical PSN	.70	
Perf'd Tbg sub	6.00	
Tbg (2 jts)	60.61	
2-7/8" collar w/ tbg blow plug	.75	
EOT		5649.88
	4077.40	

FLUID RECOVERY

ZONE BLF:	1058
ZONE BLFR:	270

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date Daily Cost Activity Description

ZONE BLFTR:	788
ZONE % REC:	25.5%
WELL BLF:	2487
WELL BLFR:	618
WELL BLFTR:	1869
WELL % REC:	24.8%

7/3/97 \$6,059.00 PERFORATIONS:

5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots
4782-4786	Green River D (03.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4370-4376	Green River C (04)	4 SPF	24 shots
4252-4256	Green River C (01)	4 SPF	16 shots
4102-4106	Green River B (10)	4 SPF	16 shots

WELLBORE:

5815 RTD

SICP @ 0 psi. MU Mtn States Port Collar. Open/close tool. RIH & find ported collar W 1174'. Open PC & RU Halliburton. Etab circ dwn tbg & up 8-5/8" csg. Pump 20 bbl pad & follow w/ 120 sx cement. Cement from port collar to surf. Close port collar & press test to 1000 psi. Drip 10' below port collar & rev out cement. RD Halliburton. POOH w/ tool. MU BVB ret tool & RIH w/ WOT to $\pm 1314'$. Press test to 2000 psi w/o loss in 5 min. Circ w/ 190° wtr. POOH. SWIFN.

Note: Port collar had been reported W 1217' after running csg but actually found @ 1174' (1 joint higher).

FLUID RECOVERY

ZONE BLF:	1058
ZONE BLFR:	270
ZONE BLFTR:	788
ZONE % REC:	25.5%
WELL BLF:	2487
WELL BLFR:	520
WELL BLFTR:	1967
WELL % REC:	20.9%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

7/2/97

\$1,896.00

PERFORATIONS:

5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots
4782-4786	Green River D (03.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4370-4376	Green River C (04)	4 SPF	24 shots
4252-4256	Green River C (01)	4 SPF	16 shots
4102-4106	Green River B (10)	4 SPF	16 shots

WELLBORE:

5815 RTD

SITP @ 0 psi. SICP @ 0 psi. w/ BVBP @ $\pm 4642'$ & EOT @ $\pm 4078'$, continue to swb to recover fluid & test zones potential. Left FL last p.m. @ $\pm 1800'$. 1st run this a.m. @ 100'. Made 20 runs in 4 hrs 35 min. First sign good oil on run #8 @ 24%. 1st run from swb to stop run #9 fluid staying @ $\pm 1800'$ from that point to final run.

Recovered $84\frac{1}{2}$ bbls oil & 97.75 bbls wtr for a total $182\frac{1}{4}$ bbls fluid. Final run oil cut @ 80%. Fluid entry ± 24 bph. Fluid temp @ $\pm 105^\circ$.

RD swb equip. RIH w/ BVBP ret tool & clean sand off BVBP @ $\pm 4642'$ & circ clean. Loaded wellbore w/ 32 bbls to circ. Latch & rel plug & POOH & set @ $\pm 1994'$. Spot 12 gal sand on plug & POOH w/ tbg & ret tool. Test BVBP to 2000 psi. 0 loss in 5 min. Open 8-5/8 & vent gas. SWIFN.

FLUID RECOVERY

ZONE BLF:	1058
ZONE BLFR:	270
ZONE BLFTR:	788
ZONE % REC:	25.5%
WELL BLF:	2488
WELL BLFR:	585
WELL BLFTR:	1903
WELL % REC:	23.5%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

7/1/97

\$2,241.00

PERFORATIONS:

5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots
4782-4786	Green River D (03.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4370-4376	Green River C (04)	4 SPF	24 shots
4252-4256	Green River C (01)	4 SPF	16 shots
4102-4106	Green River B (10)	4 SPF	16 shots

WELLBORE:

5815 RTD

SICP W 100 psi. FL @ surf. D8.1, C4, C1, B10, were perf'd & frac'd yesterday w/ last B10 flow to 0 psi. 6:00 a.m. Open csg w/ flow @ ± 1 bpm. MU Schlumberger 5½" RBP ret tool & RIH. Find top of sand @ $\pm 4053'$. (Displaced & flow ± 15 bbls while RIH.)

RU to circ. Rev. & clean out 157' sand to RBP @ 4210. Clean off RBP & latch. Circ Clean. Rel RBP & POOH & LD plug. RIH w/ same ret tool & find top of sand @ $\pm 4284'$. Estab circ. Rev & clean out 46' sand to RBP @ 4330' Circ clean & latch & rel RBP. POOH & LD plug.

MU same ret tool & RIH to find top of sand @ $\pm 4439'$. Estab circ. Rev & clean out 31' sand to RBP @ $\pm 4470'$. Circ clean. Latch & rel RBP & POOH & LD plug. MU ret tool for Halliburton 5½" BVBP & RIH & find top of sand @ $\pm 4592'$. Estab circ. Rev & clean out 46' sand to $\pm 4638'$ & circ clean. POOH w/ EOT to $\pm 4078'$.

RU swb equip & commence swb test & fluid recovery. Made 12 runs in 1 hr 50 min. 1st run fluid @ surf. First evidence of oil run #6 had a slight trace which increased to heavy trace by run #12. Last run fluid @ 2100'. Recovered 113¼ bbls wtr. SWIFN. 5:30 p.m.

FLUID RECOVERY

ZONE BLF:	1058
ZONE BLFR:	205
ZONE BLFTR:	853
ZONE % REC:	19.4%
WELL BLF:	2488
WELL BLFR:	520
WELL BLFTR:	1968
WELL % REC:	20.9%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

6/30/97	\$54,517.00	PERFORATIONS:
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5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots
4782-4786	Green River D (03.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots
4370-4376	Green River C (04)	4 SPF	24 shots
4252-4256	Green River C (01)	4 SPF	16 shots
4102-4106	Green River B (10)	4 SPF	16 shots

WELLBORE:

5815 RTD

SITP @ 25 psi. SICP @ 0 psi. Zone C8.1 @ 4596-4600' shot, broken down w/ 15% HCl & swbd. Isolated w/ BVBP @ ±4642' & RTTS @ ±4544' Friday 6-27-97. FL @ 800' load tbg w/ 5 bbls K wtr & rel RTTS. Circ hot K wtr to displace oil. POOH w/ RTTS & tbg.

RU HES & frac C8.1 w/ 5720 Boragel 30 w/ 28000# 20/40 sand @ 0.5 to 10 ppg. ATP @ 2500 psi. MTP @ 3500 psi. MTR @ 27.3 bpm. ATR @ 25 bpm. ISIP @ 3120 psi. 5 min @ 2526 psi. 10 min @ 2346 psi. 15 min @ 2217 psi (pfg @ 1.11).

Lubricate in 5½" Schlumberger RBP & set @ 4470'. Pressure test to 3000 psi. Held good. Perf C4 @ 4370-4376' w/ 4 spf (24 holes). Attempt to brk down from but would not brk @ 3000 psi. Spot 15% HCl across perms w/ wire line dump bailer & prk from down @ 2000 psi. Frac C4 w/ 6 bbls 15% HCl, 5779 gal Boragel 30 & 38800# 20/40 sand @ 0.5 to 10 ppg. MTP @ 2800 psi. ATP @ 2250 psi. MTR @ 26.4 bpm. ATR @ 25 bpm. ISIP @ 2346 psi. 5 min @ 2151 psi. 10 min @ 2022 psi. 15 min @ 1862 psi (pfg @ 0.97).

Lubricate in 5½" RBP #2 & set @ 4330' & test to 3000 psi. Held good. Perf C1 zone @ 4252-4256' w/ 4 spf (16 holes). Attempt to brk down @ 3000 psi w/o success. Spot 15% HCl w/ wireline bailer & brk down @ 3000 psi. Frac C1 w/ 6 bbls 15% HCl & 5751 gal Boragel 30 w/ 28900# 20/40 sand @ 0.5 to 10 ppg. MTP @ 2520 psi. ATP @ 2000 psi. MTR @ 22 bpm. ATR @ 206 bpm. ISIP @ 2329 psi. 5 min @ 2207 psi.

Lube in RBP #3 & set @ 4210' & test to 3000 psi. Held good. Perf B10 @ 4102-4106' w/ 4 spf (16 holes). would not brk @ 3000 psi. Spot 15% HCl @ perms w/ dump bailer & brk down @ 1700 psi. Frac B10 w/ 6 bbls 15% HCl & 5978 gal Boragel 30 w/ 28500# 20/40 sand @ 0.5 to 10 ppg. MTP @ 2780 psi. ATP @ 2500 psi. MTR @ 22.5 bpm. ATR @ 20 bpm. ISIP @ 2516 psi. 5 min @ 2376 psi. 10 min @ 2236 psi. 15 min @ 2158 psi (pfg @ 1.05). Open on adj choke & flow back @ ±60 bph beginning @ 5 p.m. Well @ 0 psi @ 7 p.m. Recovered 92 bbls of 1388 bbl load pumped today. SWIFN.

FLUID RECOVERY

ZONE BLF:

1058

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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		ZONE BLFR:	92
		ZONE BLFTR:	966
		ZONE % REC:	8.7%
		WELL BLF:	2488
		WELL BLFR:	407
		WELL BLFTR:	2081
		WELL % REC:	16.4%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

6/27/97	\$3,716.00	PERFORATIONS:
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5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots
4782-4786	Green River D (03.1)	4 SPF	16 shots
4596-4600	Green River C (08.1)	4 SPF	16 shots

WELLBORE:

5815 RTD

SITP @ 800 psi. SICP @ 0 psi. Perf'd, broke dwn & swbd D3.1 zone yesterday w/ BVBP @ $\pm 4823'$ & RTTS pkr @ $\pm 4762'$. This morning FL @ surf. Flow back $9\frac{1}{2}$ bbls fluid in 30 min @ $\pm 70\%$ oil w/ flow dying dwn. Load tbg w/ 10 bbls K wtr. Rel RTTS pkr @ $\pm 4762'$. Circ hot K wtr to displace oil & gas & control well.

RIH & latch up BVBP @ $\pm 4823'$ & rel. Pull BVBP @ set w/ top cup @ $\pm 4642'$. Pressure test to 4500 psi w/o loss in 5 min. Pull EOT to $\pm 4621'$ & spot 6 bbls 15% HCl w/ 27 bbls K wtr @ C8.1 zone. POOH w/ RTTS & ret tool.

RU SWLS & perf C8.1 zone @ 4596-4600' w/ 4" gun @ 4 spf = 16 holes. POOH. RD SWLS. Brk dwn frn @ 1500 psi. Inject 8 bbls @ $4\frac{1}{2}$ bpm @ 1300 psi. ISIP 1000 psi. RIH w/ RTTS & ret tool w/ WOT @ $\pm 4621'$. Rev out possible excell HCl. Pull RTTS up & set w/ center elements @ $\pm 4544'$. Test to 1500 psi. 0 loss in 5 min w/ EOT @ 4550'.

RU swb equip & swb to recover fluid. Test to determine if a frac design is required. Made 11 runs in 3 hrs 45 min. 1st run FL @ surf. First evidence oil on run #2. Trace sample on run #4 @ 35%. Run #8 was dry. Wait 1 hr to make run #9 which yielded 1 bbl fluid @ 45% oil. Wait 1 hr to make run #10 which was dry. No fluid entry. At this point, total fluid recovery was 67 bbls of which 25 bbls were oil, 42 bbls were wtr. Load to recover @ 38 bbls. Wait 1 hr & make run #11 & recover 1 bbl fluid @ 90% oil. Recovery = 68 total bbls (25.75 bbls oil, 42.25 bbls wtr). SWIFN. Drain lubricants.

FLUID RECOVERY

ZONE BLF:	38
ZONE BLFR:	42
ZONE % REC:	110.5%
WELL BLF:	1430
WELL BLFR:	315
WELL BLFTR:	1115
WELL % REC:	22.2%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

6/26/97

\$3,431.00

PERFORATIONS:

5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots
4782-4786	Green River D (03.1)	4 SPF	16 shots

WELLBORE:

5815 RTD

SITP @ 0 psi. SICP @ 0 psi. W/ EOT @ ± 4794 spot 6 bbls 15% HCl @ D3.1 perfs @ 4782-4786'. POOH w/ tbg & ret head.

RU sWLS & perf D3.1 zone @ 4782-4786' w/ 4 spf & POOH. brk dwn frn @ 2000 psi & pump 6 bbls @ 4.5 bpm @ 1800 psi.

MU RTTS Halliburton 5½" pkr & ret tool for BVBP & RIH w/ EOT @ 4800'. Rev out tbg vol to clear any lingering HCl. Set RTTS w/ center element @ $\pm 4762'$ & pressure test pkr to 1500 psi. Hel good 5 min.

RU swb equip & swb zone to test fluid entry & other data. Made 13 runs in 3 hrs. 5 min 1st run. FL @ surf. First evidence of oil, run #2. First sample taken run #4 @ 7% oil. Recovered 32¼ bbls oil, 64 bbls wtr for 96¼ bbls total fluid. Wait 1 hr between run #12 & #13. FL increased from 4700 to 2400'. Fluid entry ± 12 bbls/hr. Oil cut run #2 @ 65%. Run #13 (following 1 hr wait) MOC @ 54%. SIWFN.

FLUID RECOVERY

ZONE BLF:	39
ZONE BLFR:	64
ZONE % REC:	164.1%
WELL BLF:	1392
WELL BLFR:	273
WELL BLFTR:	1119
WELL % REC:	19.6%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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6/25/97

\$2,281.00

PERFORATIONS:

5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots

WELLBORE:

5815 RTD

SITP @ 175 psi. SICP @ 50 psi. W/ BVBP @ $\pm 5665'$ & EOT @ $\pm 4916'$. Finish RU swb & swb test 4 zones (D5.0, D7.1, E4.2, E6). Frac'd separately to recover frac fluid. Made 20 runs in 5 hrs & 25 min. 1st run FL @ surf. Oil cut 0%. First sign oil trace on run #4. First measurable oil run #8 @ 15%. Recover 53 bbls oil, 111 bbls wtr. Last run FL @ 2400'. Oil cut 68%.

RD swb & RIH w/ ret tool to BVBP @ $\pm 5665'$. Clean sand off plug. Latch, rel, POOH & set BVBP w/ top cup @ $\pm 4823'$. POOH w/ EOT @ $\pm 4792'$. Pressure test BVBP to 4500 psi. 0 loss in 5 min. Set up to spot HCl in a.m. SWIFN.

FLUID RECOVERY

ZONE BLF:	416
ZONE BLFR:	87
ZONE BLFTR:	329
ZONE % REC:	20.9%
WELL BLF:	1353
WELL BLFR:	209
WELL BLFTR:	1144
WELL % REC:	15.4%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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6/24/97	\$48,450.00	PERFORATIONS:
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5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots

WELLBORE:

5815	RTD
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SICP @ 50 psi w/ RBP @ 5010 & D5.0 perms @ 4932-4938 shot & brkn dwn last p.m. RU HES & pump 250 gal 15% HCl w/ 397 gal spacer. Frac zone w/ 7695 gal Boragel 30 & 42700# 20/40 sand & flush w/ 4866 gal wtr treated w/ clay stay. ATR @ 25.5 bpm. ATP @ 2156 psi. MTR @ 26 bpm. MTP @ 2680 psi. ISIP @ 2642 psi. 5 min @ 2443 psi. 10 min @ 2028 psi. 15 min @ 1547 psi (pfg @ 0.8)

Open well & flow through adj choke @ ±60 bph @ 7:30 a.m. @ 9 a.m. well dead enough to trip tbg. Recovered 72 bbls flowing w/ well still flowing slightly.

MU Schlumberger ret tool & RIH. Find sand @ ±4925' (displace 15 bbls w/ RIH). Rev circ & clean out 85' sand to RBP @ 5010'. Circ clean. Latch & rel RBP & POOH. Drop plug & RIH & find sand @ ±5226'. Clean out 99' sand to 2nd RBP @ 5325'. Circ clean. Rel RBP @ POOH.

MU ret tool for BVBP & RIH & Find top of sand @ ±5545'. Clean 45' sand off BVBP @ ±5592' & latch & rel BVBP. Move dwn & set w/ top cup @ ±5666'. POOH w/ EOT @ ±5013' RU swb equip & prep to swb in a.m. SWIFN.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7695	gal

PROPPANT:	Type	Total Lbs: Ramp Range
	20/40 sand	42700

PRESSURE/RATE:

Maximum:	2680 psi	26 BPM
Average:	2156 psi	25.5 BPM

SI PRESSURE:

	TP	CP
ISIP:	2642	
5 Min:	2443	
10 Min:	2028	
15 Min:	1547	

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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FLUID RECOVERY

ZONE BLF:	416
ZONE BLFR:	87
ZONE BLFTR:	329
ZONE % REC:	20.9%
WELL BLF:	1353
WELL BLFR:	97
WELL BLFTR:	1256
WELL % REC:	7.2%

COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
---------------	------------	----------------------

6/23/97	\$9,873.00	PERFORATIONS:
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5630-5634	Green River E (06)	4 SPF	16 shots
5544-5548	Green River E (04.2)	4 SPF	16 shots
5046-5056	Green River D (07.1)	4 SPF	40 shots
4932-4938	Green River D (05)	4 SPF	24 shots

WELLBORE:

5815	RTD
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W/ BVBP @ $\pm 2694'$, perfs E6 @ 5630-5634' open & brkn dwn w/ HCl, RU HES @ frac E6 perfs w/ Phi H 1A schedule w/ 5750 gal. Boragel 30 & 29300# 20/40 sand. Flush w/ 2517 gal K wtr & screen out w/ 6000# sand introduced into frmn. Job done @ ATR 25 bpm w/ ATP 2650 psi. MTR @ 27 bpm & MTP @ 3850 psi. Screen out. Open to pit & flow back @ ± 1 bpm until deat enough to trip tbg.

MU BVBP ret tool & RIH $\pm 3100'$ & circ out gel & sand. RIH to $\pm 4345'$ & circ clean. RIH & find solid sand @ $\pm 5228'$. Circ. Reverse & clean out $\pm 466'$ sand to BVBP @ $\pm 5694'$. Circ clean latch & rel plug & pull & set BVBP w/ top cup @ $\pm 5592'$. Test plug to 4500 psi w/o loss in 5 min. W/ EOT @ $\pm 5555'$, pump 250 gal 15% HCl & follow w/ 32 bbls K wtr to spot across E4.2 perfs @ 5544-5548'. POOH w/ tbg & ret tool.

RU SWLS & perf E4.2 zone @ break dwn @ 2750 psi. Frac w/ 6742 gal Broagel 30 w/ 28900# 20/40 sand @ ATR of 25 bpm & ATP @ 2500 psi w/ MTR @ 26 bpm & MTP @ 3500 psi. Flush w/ 4930 gal K wtr. ISIP @ 1976 psi. 5 min @ 1764 psi. 10 min @ 1684 psi & 15 min 1644 psi. FG = .79. Lubricate in a $5\frac{1}{2}''$ Schlumberger RBP @ set @ 5325'. Test to 3000 psi. Perf D7.1 @ 5046-5056' & brk dwn @ 3000 psi. Hook up Halliburton & frac w/ 250 gal 15% acid w/ 770 gal Boragel 30 w/ 52200# 20/40 sand. ATR @ 25 bpm. ATP @ 2400 psi. MTR @ 26.5 bpm. MTP @ 3000 psi. Flush w/ 6182 gal K wtr. ISIP @ 2735 psi. 5 min @ 2597 psi. 10 min @ 2463 psi, 15 min @ 2307 psi. PFG = .97. While in the process of equalizing lube. To lube in RBP, line parted. Repair line & resume lube. RBP in & set @ 5010' & test to 3000 psi. 0 loss in 5 min. Perf D5.0 @ 4932-4938' brk dwn @ 2000 psi & inject 4 bpm @ 1800 psi.

RD Schlumberger. SWIFN.

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	5750	gal

PROPPANT:	Type	Total Lbs: Ramp Range
	20/40 sand	29300

SI PRESSURE:	TP	CP
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COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	6742	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	28900	

PRESSURE/RATE:

Maximum:	3500 psi	26 BPM
Average:	2500 psi	25 BPM

SI PRESSURE:

	TP	CP
ISIP:	1976	
5 Min:	1764	
10 Min:	1684	
158 Min:	1644	

FLUID RECOVERY

ZONE BLF:	937
ZONE BLFR:	10
ZONE BLFTR:	927
ZONE % REC:	1.1%
WELL BLF:	937
WELL BLFR:	10
WELL BLFTR:	927
WELL % REC:	1.1%

STIMULATION TREATMENT:

FLUID:

Fluid Task	Fluid Type	Amount	Unit
frac fluid	Boragel 30	7700	gal

PROPPANT:	Type	Total Lbs:	Ramp Range
	20/40 sand	52200	

PRESSURE/RATE:

Maximum:	3000 psi	26.5 BPM
Average:	2400 psi	25 BPM

SI PRESSURE:

TP	CP
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COMPLETION REPORT

10/9/97

Petroglyph Operating Co., Inc.

Operator: Petroglyph Operating Company, Inc.

Elevation: KB 6158

Well: Ute Tribal 19-05

GL 6148

County, St.: Duchesne UT

Activity Date	Daily Cost	Activity Description
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		ISIP: 2735
		5 Min: 2597
		10 Min: 2463
		15 Min: 2307

6/21/97	\$3,606.00	PERFORATIONS:		
		5630-5634	Green River E (06)	4 SPF 16 shots

Pump 6 bbls 15% HCl & follow w/ 32 bbls K wtr to spot @ E6 perms w/ EOT @ $\pm 5646'$. POOH w/ tbg & ret tool. RU SWLS & perf zone #6 @ 5630-5634' w/ 4" gun w/ 4 SPF (16 holes). RD SWLS. Fill csg w/ 15 bbls & brk dwn perms @ 2000 psi. Pump acid away 2/ 20 bbls K wtr @ 1800 psi @ 4.2 bpm. ISIP 1500 psi. SWIFN. Move excess tbg & rods.

6/20/97	\$1,858.00
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MIRU. Move in equip. X over to tbg equip. Install frac flange & tighten. NU BOPE. RU pmp lines. Fill csg w/ 4 bbls KCl wtr & pressure test flange, BOPE & csg to 4500 psi w/o psi loss in 5 min. MU 5½" Halliburton BVBP. Tally, count & single in 183 jts tbg & set BVBP w/ top cup. @ $\pm 5694'$. Pull & position EOT @ $\pm 5645'$ to spot HCl in A.M. SWIFN.

Cumulative Cost: \$167,906.00

Days Since Start: 19

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

14-20-H62-3514

6. If Indian, Allottee or Tribe Name

Ute Indian Tribe

7. If Unit or CA, Agreement Designation

14-20-H62-4650

8. Well Name and No.

UteTribal 19-05

9. API Well No.

43-013-31793

10. Field and Pool, or Exploratory Area

Antelope Creek

11. County or Parish, State

Duchesne County, UT

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Petroglyph Operating Company, Inc.

3. Address and Telephone No.

P.O. Box 1839, Hutchinson, KS 67504-1839; (316) 665-8500

4. Location of Well (Footage, Sec., T., R., or Survey Description)

**2005' FNL 658' FWL
SWNW Sec. 19-T5S-R3W**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ CONVERT TO INJECTOR

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Petroglyph Operating Company, Inc. has submitted an application for a UIC permit to convert the Ute Tribal 19-05 from a producing well to an injection well under the EPA Area Permit #UT2736-00000 within the Antelope Creek Waterflood Project Area in Duchesne County, Utah.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

**MAR 02 2000
DIVISION OF
OIL, GAS AND MINING**

14. I hereby certify that the foregoing is true and correct

Signed *W. L. Smith* Title Operations Coordinator

Date 2-28-00

(This space for Federal or State official use)

Approved by _____ Title _____

Date _____

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

*See Instruction on Reverse Side

AFTER CONVERSION

WELL HISTORY:

SPUD WELL: 05-20-1997

FIRST PROD: 08-08-1997

06-30-97 B-10 ZONE

PERFS: 4102-4106' 4SPF

FRAC'ED, ISIP 2546 psi.

06-30-97 C-1 ZONE

PERFS: 4252-4256' 4SPF

FRAC'ED; ISIP 2329 psi.

06-30-97 C-4 ZONE

PERFS: 4370-4376' 4SPF

FRAC'ED; ISIP 2346 psi.

06-27-97 C8.1 ZONE

PERFS: 4596-4600' 4SPF

FRAC'ED; ISIP 3120 psi.

06-26-97 D3.1 ZONE

PERFS: 4782-4786' 4SPF

DID NOT FRAC THIS ZONE

06-23-97 D5 ZONE

PERFS: 4932-4938' 4SPF

FRAC'ED; ISIP 2642 psi.

06-23-97 D7.11 ZONE

PERFS: 5046-5056' 4SPF

FRAC'ED; ISIP 2794 psi.

06-23-97 E4.2 ZONE

PERFS: 5544-5548' 4SPF

FRAC'ED; ISIP 1976 psi.

06-21-97 E6 ZONE

PERFS: 5630-5634' 4SPF

FRAC'ED; ISIP 2670 psi.

Petroglyph Operating Co., Inc.

Ute Tribal # 19-05

2005' FWH AND 658' FWH

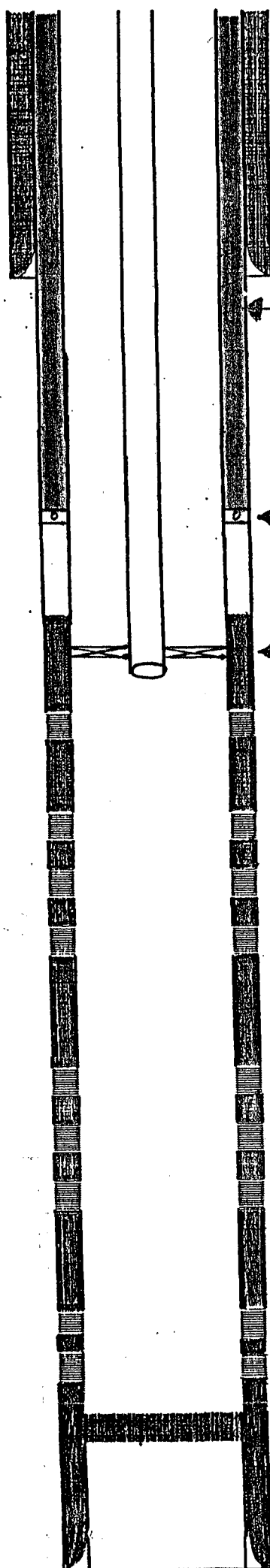
SW NW SEC. 19-55-3W

Antelope Creek Field

Duchesne Co, Utah

LEASE # 14-20-1462 3514

API# 43-013-31793



GL: 6148'

KB: 6158'

Surface Hole Size 12 1/4"

8 5/8" 24# Surface Csg @
428' KB Cmt'd w/ 260 sxs

Hole Size: 7 7/8" Bit.

Cement Tops:

1st. Stage: 1450'

2nd. Stage: CIRCULATED TO SURFACE

5 1/2" 15.5# CSG @ 5804'

CMT'd W/ 395 Sxs. 1st. Stage

CMT'd W/ 120 Sxs. 2nd Stage

Two Stage Cementer @ 1174'

135 JTS OF 2 3/8" 4.7#
TUBING SET ON PACKER
AT 4320'

RECEIVED
MAR 02 2000
DIVISION OF
OIL, GAS AND MINING

PBTD @ 5758'

TD @ 5815' KB

(Not to Scale)

Form 3160-5
(August 1999)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposalsFORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.

1420H623514

6. If Indian, Allottee or Tribe Name

UTE INDIAN TRIBE

7. If Unit or CA Agreement, Name and No.

1420H624650

8. Lease Name and Well No.

UTE TRIBAL 19-05

9. API Well No.

4301331793

10. Field and Pool, or Exploratory

ANTELOPE CREEK

11. County or Parish, State

DUCHESNE, UT**SUBMIT IN TRIPLICATE- Other Instructions on reverse side**

1. Type of Well:

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION**

2. Name of Operator

**PETROGLYPH OPERATING COMPANY,
CONTACT: MICHEAL SAFFORD COORDINATOR
EMAIL: mikes@petroglyph.net**

3a. Address

**P.O. BOX 607
ROOSEVELT, UT 84066**

3b. Phone No. (include area code)

**TEL: 435.722.2531 EXT:
FAX: 435.722.9145**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T05S R03W SWNW 2005FNL 658FWL**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recompleat horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Conversion of Well was started on 9/12/00 and finished on 9/15/00.
attached is the well rework record EPA form.**

Current status: Waiting on EPA approval to inject.

Name (Printed/Typed)	Title	
Signature	Date	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction		

**ELECTRONIC SUBMISSION #2057 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR PETROGLYPH
OPERATING COMPANY, SENT TO THE VERNAL FIELD OFFICE**

30-5
August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 28 2000

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
1420H623514
6. If Indian, Allottee or Tribe Name
UTE INDIAN TRIBE
7. If Unit or CA/Agreement Name and/or No.
1420H624650
8. Well Name and No.
UTE TRIBAL 19-05
9. API Well No.
4301331793
10. Field and Pool, or Exploratory Area
ANTELOPE CREEK
11. County or Parish, and State
DUCHESNE UT

1. Type of Well ☐ Oil Well ☐ Gas Well Other ☒ INJECTION

2. Name of Operator
PETROGLYPH OPERATING COMPANY,

3a. Address P.O. BOX 607
ROOSEVELT, UT 84066

3b. Phone No. (include area code)
435.722.2531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
658FWL 2005FNL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Conversion of Well was started on 9/12/00 and finished on 9/15/00. attached is the well rework record EPA form. Current status: Waiting on EPA aproval to inject.

RECEIVED

OCT 11 2002

DIVISION OF
OIL GAS AND MINING

RECEIVED JAN 9 2001

Electronic Submission #2057 verified by the BLM Well Information System for PETROGLYPH OPERATING COMPANY, Sent to the Vernal Field Office
Committed to AFMSS for processing by LESLIE CRINKLAW on 11/28/2000

Name (Printed/Typed) MICHEAL SAFFORD

Title COORDINATOR

Signature

Date 11/28/2000

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

NOTED

Title

Date 11/28/2000

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

OPERATOR

U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

AUG 16 2000

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Micheal Safford
Operations Coordinator
Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, UT 84066

RE: Additional Well to Area Permit
Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

Dear Mr. Safford:

Your request of February 24, 2000, that the following production well be converted to a Class II enhanced oil recovery well and added to the Antelope Creek Waterflood, as authorized under EPA Area Permit No. UT2736-00000, is hereby granted.

NAME	LOCATION	EPA WELL PERMIT NO.
<u>Ute Tribal #19-05</u>	SW NW Section 19 T 5 S - R 3 W Duchesne County, UT	<u>UT2736-04535</u>

This additional well is within the boundary of the existing Area Permit for the Antelope Creek Waterflood (UT2736-00000), and this addition is made according to the terms and conditions of that Permit. Unless specifically mentioned in this authorization, conversion is being made under the provisions of 40 CFR §144.33 and the terms and conditions of the original Permit. The proposed well location, well schematic, conversion procedures with/schematic, plugging and abandonment plan with/schematic, Cement Bond Log (CBL) and Surety Performance Bond No. 1936 and Bond Rider No. 1 covering this well, as submitted by your office, have been reviewed and approved as follows:

- (1) The conversion plan for this production well has been reviewed, and found satisfactory. EPA analysis of the CBL for this well has not identified a minimum interval of adequate cement within the confining zone (3,596' to 3,716'), pursuant to Region 8 Ground Water Section

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Guidance No. 34. Therefore, it has not been determined that cement in this well provides an effective barrier to upward movement of fluids through vertical channels adjacent to the wellbore (Part II Mechanical Integrity [MI] pursuant to 40 CFR § 146.8 (2). The permittee is then required to demonstrate MI, pursuant to standards of Region 8 Ground Water Section Guidance No. 37 demonstrating Part II (external) Mechanical Integrity for a Class II injection well permit.

- (2) Maximum injection pressure (MIP) - please reference the Final Area Permit UT2736-00000, Part II. Section C.5.(b) "the maximum surface injection pressure (MIP) shall not exceed 1900 psig". Until such time that a step-rate injectivity test (SRT) has been performed and approved by the EPA, the initial maximum surface injection pressure (MIP) for the Ute Tribal #19-05 shall not exceed 1900 psig.

Final Area Permit (UT2736-00000), has provisions whereby the permittee may request an increase, or decrease, in the maximum surface injection pressure.

- (3) The plugging and abandonment plan and schematic, submitted by your office, has been reviewed, and approved.
- (4) Copy of Surety Performance Bond #1936 and Bond Rider #1 covering Ute Tribal #19-05.

Underground Sources of Drinking Water (USDWs). The base of the USDWs in the Ute Tribal #19-05 is approximately 936 feet below ground level and is located within the Uinta Formation. The source for this USDW information is formation water analyses submitted by the operator for twenty-two (22) wells within the initial AOR, and from Publication No. 92 (1987), prepared jointly by the USGS and the Utah of Oil, Gas, and Mining.

Injection Interval: Fluid injection shall be limited to the gross zones within the Green River Formation between the approximate depths of 3,716 feet (Top of "B" Marker) and 5,710 feet (Basal Carbonate). The injection (perforated) zones from 4,102 feet to 5,634 feet within this portion of the Green River Formation, are comprised of porous and permeable lenticular calcareous sandstones interbedded with low permeability carbonates and calcareous shales. The lenticular sandstones vary in thickness from 1 to 30 feet and are individually separated by shale which act as isolation barriers (confining zones) for the waterflood.

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Confining Zone: The overall confining zone above the top injection interval (4,102' - 4,106'), is identified in this well from 3,596' to 3,716', and is overlain by impermeable Upper Green River Formation calcareous sandy lacustrine shales and continuous beds of microcrystalline dolomite.

Prior to commencing injection into this well, permittee must fulfill Permit condition PART II, C. 2. and have submitted to the EPA for review and approval, the following:

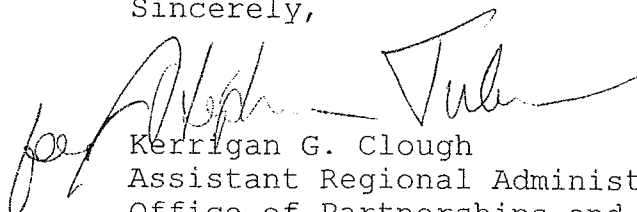
- (1) All conversion is complete and the permittee has submitted a completed Well Rework Record (EPA Form 7520-12); and
- (2) The pore pressure has been determined; and
- (3) The well has successfully completed and passed Part I (internal) of the mechanical integrity test (MIT), with pressure chart; EPA form enclosed with current MIT Guidance and Part II (external).

Please be aware that Petroglyph does not have authorization to begin injection into the Ute Tribal #19-05 until the items listed above have been approved by the EPA and Petroglyph has received written authorization to begin injection from the EPA.

All other provisions and conditions of the Permit remain as originally issued July 12, 1994, and revised April 30, 1998.

If you have any questions, please contact Mr. Dan Jackson at 303 312 6155. Also, please direct the above requirements to the Ground Water Program Director at the above letterhead address, citing MAIL CODE 8P-W-GW. Thank you for your continued cooperation.

Sincerely,



Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

Enclosure: Mechanical Integrity Test Form (MIT)
Current MIT Guidance No. 37

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cc: Mr. Roland McCook, Chairman
Uintah & Ouray Business Committee

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Jerry Kenczka
BIM - Vernal District Office

Mr. Gilbert Hunt
State of Utah Natural Resources
Division of Oil, Gas & Mining

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

AUG - 9 1995

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37
Demonstrating Part II (external) Mechanical Integrity
for a Class II injection well permit.

FROM: Tom Pike, Chief *Tom Pike*
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - INTERNAL MECHANICAL INTEGRITY is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - EXTERNAL MECHANICAL INTEGRITY demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

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Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: _____	T _____ N/S R _____ E/W County: _____ State: _____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☐ Yes ☐ No

Initial test for permit? ☐ Yes ☐ No

Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☐ Yes ☐ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test ? ☐ Yes ☐ No

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Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 11/11/05

Test conducted by: CCIFF WOOD

Others present: _____

Well Name: <u>19-05</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>ANTELOPE CREEK</u>		
Location: <u>19-05</u>	Sec: _____	T _____ N/S R _____ E/W County: <u>DUCHESNE</u> State: <u>UT</u>
Operator: <u>PETROGLYPH OPERATIONS</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No

Initial test for permit? ☐ Yes ☐ No

Test after well rework? ☐ Yes ☐ No

Well injecting during test? ☒ Yes ☐ No If Yes, rate: 30 bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING PRESSURE				
Initial Pressure	<u>1880</u>	psig	psig	psig
End of test pressure	<u>1880</u>	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE				
0 minutes	<u>1085</u>	psig	psig	psig
5 minutes	<u>1085</u>	psig	psig	psig
10 minutes	<u>1085</u>	psig	psig	psig
15 minutes	<u>1085</u>	psig	psig	psig
20 minutes	<u>1085</u>	psig	psig	psig
25 minutes	<u>1085</u>	psig	psig	psig
30 minutes	<u>1085</u>	psig	psig	psig
<u>1 Hour</u> minutes	<u>1085</u>	psig	psig	psig
minutes		psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

